PATENT APPLICATION

ATTORNEY DOCKET NO. 200314065-1

IN THE

UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):

Ming C. Hao et al

Confirmation No.: 8534

Application No.: 10/774315

Examiner:

Filing Date:

Feb 06, 2004

Group Art Unit: 2171

Title:

Method And System For Automated Visual Comparison Based On User Drilldown

Sequences

Mail Stop Amendment **Commissioner for Patents** PO Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

under 37 CFR 1.97(b), or (Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)

() under 37 CFR 1.97 (c) together with either a:

() Statement under 37 CFR 1.97(e), or

() a \$180.00 fee under 37 CFR 1.17(p), or (After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)

() under 37 CFR 1.97 (d) together with a:

() Statement under 37 CFR 1.97(e)(1) or (2), and

() a \$180.00 fee set forth in 37 CFR 1.17(p).

(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account 08-2025 the sum of \$0.00 . At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25.

Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

() A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

(X) I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: 1/25/2005

) I hereby certify that this paper is being

transmitted to the Patent and Trademark Office facsimile number

Number of pages:

Typed Name: Be Henry

Signature

Rev 12/04 (IDSCERT)

Respectfully submitted,

Ming C. Hao et al

Philip Lyren

Attorney/Agent for Applicant(s)

Reg. No. 40,709

Date: 1/25/2005

Telephone No.: 281 514 8236

PTO/SB/08B (08-03)

Approved for use through 07/31/2006, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

200314065-1

TRANSPOSITION 1449/PTO er the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known **Application Number** 10/774,315 Filing Date INFORMATION DISCLOSURE 2/6/04 STATEMENT BY APPLICANT **First Named Inventor** Ming C. Hao Art Unit 2171 (Use as many sheets as necessary) **Examiner Name**

Attorney Docket Number

JAN 27 2005

Sheet 12 2

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	MING HAO,US App. 09/609,101 filed 6-30-00, Method and Apparatus for Visual Mining of Multiple Simultaneous Presentations by Plugging in a Plurality of Existing Graphic Toolkit	
	2	MING HAO, US App. 10/694,076, filed 10-27-03, Visual Boundaries for Aggregate Information in Pixel-Oriented Graphs	
	3	MING HAO, US App 10/941114 filed 9-15-04, Constructing Substantially Equal-Width Pixel Bar Charts to Enable Visual Data Analysis	
	4	DANIEL KEIM, Pixel Bar Charts: A New Technique for Visualizing Multi- Attribute Data Sets Without Aggregation, IEEE/InfoVis2001	
	5	MING HAO, VisImpact: Business Impact Visualization, HP Technical Report, June, 2003	
	6	MING HAO, Visual Mining of E-Customer Behavior Using Pixel Bar Charts, HP Technical Report, October 15, 2004	
	7	DANIEL KEIM, Designing Pixel-Oriented Visualization Techniques: Theory and Applications, IEEE Transactions on Visualization and Computer Graphics, Vol. 6, No. 1, Jan-Mar 20	
	8	DANIEL KEIM, PixelMaps: A New Visual Data Mining Approach for Analyzing Large Spatial Data Sets, ICDM 2003, 3rd IEEE International Conference on Data Mining, Melbourne, FL	
	9	DANIEL KEIM, Visual Techniques for Exploring Databases, Invited Tutorial, Int. Conference on Knowledge Discovery in Databases (KDD'97), Newport Beach, CA, 1997	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Attorney Docket Number | 200314065-1

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO	Complete if Known				
Cassillate for form 1775/170	Application Number	10/774,315			
INFORMATION DISCLOSURE	Filing Date	2/6/04			
	First Named Inventor	Ming C. Hao			
STATEMENT BY APPLICANT	Art Unit	2171			
(Use as many sheets as necessary)	Examiner Name				

Sheet

	U. S. PATENT DOCUMENTS .					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (d known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear	
	1	^{US-} 2003/0071815	4-17-03	Ming C. Hao		
	2	^{US-} 2002/0174087	11-21-02	Ming C. Hao		
		US-				
		US-				
		US				
		US-				
-		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-	<u> </u>			
		US-				
		US-				
		US-				
		US-				
		US-				

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	Γ
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY			
		<u></u>				
-						
						L
_						
						f

Examiner		Date	
Signature		Considered	
-	·	· · · · · · · · · · · · · · · · · · ·	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not Considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Briter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND** TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.